(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 13 May 2004 (13.05.2004)

PCT

(10) International Publication Number WO 2004/039843 A1

C07K 16/18, (51) International Patent Classification7: G06T 17/00, G01N 33/563

(21) International Application Number:

PCT/SE2003/001435

(22) International Filing Date:

12 September 2003 (12.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0203226-6

31 October 2002 (31.10.2002) SE

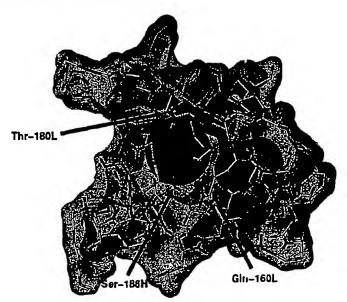
- (71) Applicant (for all designated States except US): AMER-SHAM BIOSCIENCES AB [SE/SE]; Patents Department, Björkgatan 30, S-751 84 Uppsala (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AXÉN, Andreas [SE/SE]; Amersham Biosciences AB, Björkgatan 30,

S-751 84 Uppsala (SE). BAUMANN, Herbert [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE). CARREDANO, Enrique [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE).

- (74) Agents: KILANDER, Annika et al.; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: IMMUNOGLOBULIN G BINDING POCKET



(57) Abstract: The present invention relates to a human IgG binding pocket comprised of a first interacting surface, which originates from an IgG k light chain, and a second interacting surface, which originates from an IgG heavy chain, which amino acids are strictly conserved between human IgGs of k-type. The invention also embraces an isolated and purified polypeptide, which comprises said binding pocket. Further, the invention relates to various methods of using the novel binding pocket, such as in screening for identification of chemical entities capable of selective binding thereof, and in other experimental and/or virtual methods for design and/or identification of chemical entities capable of selective binding thereof.